

85276

Page 1

Accept

N900040100

Setup Start *NS1*

Stop *NS2*

Cust Item ID:

Start Date: 05/06/2012 **Start Qty:** 1.00

*** 1 ***

Required Date: 19/06/2012 **Req'd Qty:** 1.00

*** 1 ***

Customer:

Reference:

Approvals: Process Plan: MLJ

Date: 12/06/05

Tooling:

Date:

Run Start *NR1*

QC:

Date:

SPC (Y/N):

Date:

Stop *NR2*

[illegible]

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries

Work Order ID 85276***85276***

Page 2

June-05-12 10:54:06 AM

Item ID: D412-769-042

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Aft Facing Seat, RH

Start Date: 05/06/2012 Start Qty: 1.00

1

Cust Item ID:

Required Date: 19/06/2012 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start ***NR1***Stop ***NR2***

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|--------------------------------|--|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
| 120 | Packaging | 0.00 | | | | | | | |
| *120* | | | | | | | | | |
| Packaging | Memo | 0.00 | | | | | | | |
| Packaging | Identify and pack for shipping as per PPP D412-769-042 | | | | | | | | |
| | Location: _____ | | | | | | | | |
| | PPP Rev: _____ | | | | | | | | |
| 130 | QC21- Final Inspection - Work Order Release | 0.00 | | | | | | | |
| *130* | | | | | | | | | |
| QC | Memo | 0.00 | | | | | | | |
| Quality Control | | | | | | | | | |

PPP 85274

DAS
06
9-88

13-4-9

13/4/16

mc
13-4-16

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries

June-05-12 10:54:10 AM

85276

D412-769-042

Start Date: 05/06/2012

Required Date: 19/06/2012

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP rev A 08-07-17 new issue DD verified by:EC IPP Rev:B
10.03.23 as per IIN revC DD verified by:EC IPP Rev:C 10.06.07
added pick kit DD verf:EC

[illegible]

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-769 REV. C AND
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-769 REV. 1

REF. TCCA STC: SH08-38
REF. FAA STC: SR02682NY
REF. EASA STC: 10027063

PURPOSE

The purpose of this DSI (Dart Service Instruction) is to inform customers and operators that qty(2) D4679-1 Spacers were added to D412-769-011 Aft Facing Seat Kit and D412-769-041/-042 Aft Facing Seat, LH/RH at CHG 002 or later. This change also affects the hardware as shown in Figure 1 of this service instruction.

CHANGE

For replacement parts for D412-769-011/-041/-042 at CHG 002 or later, the parts list of ICA-D412-769 is updated as follows:

25.9 Parts List (ICA-D412-769)

| Qty -011 | Qty -041 | Qty -042 | Part Number | Description |
|-------------|-------------|-------------|---------------|------------------------------|
| X | | | D412-769-011 | AFT FACING SEAT KIT |
| 1 | X | | D412-769-041 | AFT FACING SEAT, LH |
| 1 | | X | D412-769-042 | AFT FACING SEAT, RH |
| | 1 | | D412-769-043 | AFT FACING SEAT ASSEMBLY, LH |
| | | 1 | D412-769-044 | AFT FACING SEAT ASSEMBLY, RH |
| | 2 | 2 | D4679-1 | SPACER (ADD) |
| | 11 | 11 | AN525-10R22 | SCREW (WAS QTY 13) |
| | 2 | 2 | AN525-10R28 | SCREW (ADD) |
| | 11 | 11 | NAS1149D0332J | WASHER (WAS QTY 13) |
| | 23 | 23 | NAS1149D0363J | WASHER (WAS QTY 21) |

NOTE: PART INCLUDED WITH ASSEMBLY ABOVE

WEIGHT AND BALANCE

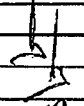
Not affected.

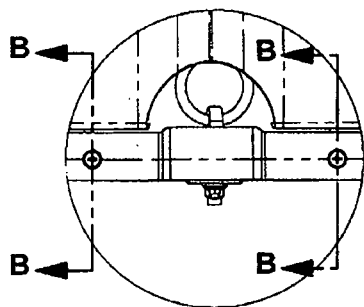
CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

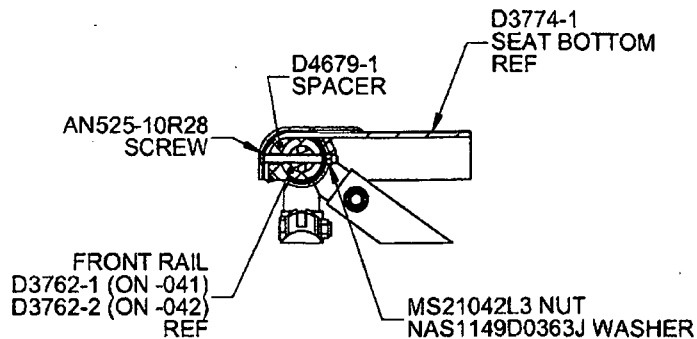
BY: 
D. SHEPHERD (DE # 02)

DATE: 12.07.10
CERT. NO.: SH08-38
ISSUE NO.: 2

| | | | |
|--|---|--|--------------|
| A | NEW ISSUE | MB | 12.07.10 |
| REV. | DESCRIPTION | BY | DATE |
| DESIGN |  | DART AEROSPACE LTD | |
| DRAWN | | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | | DRAWING NO. | REV. A |
| MFG. APPR. | | DSI 9625 | SHEET 1 OF 2 |
| APPROVED | | TITLE | SCALE |
| DE APPR. | SPACER ADDITION | NTS | |
| DATE | 12.07.10 | COPYRIGHT © 2012 BY DART AEROSPACE LTD | |
| THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. | | | |



DETAIL A
Scale 4X



SECTION B-B

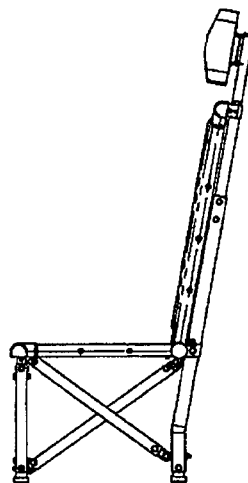
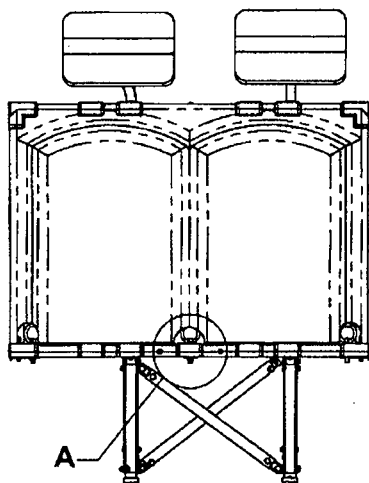


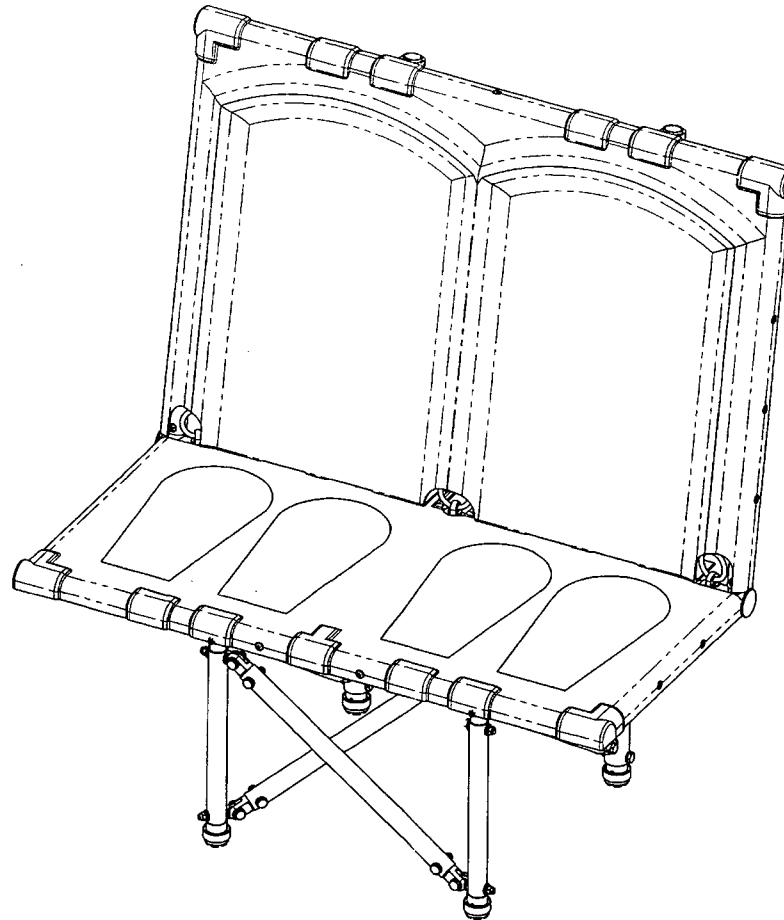
Figure 1: Addition of D4679-1 Spacer
(D412-769-041 shown, D412-769-042 similar)

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED
BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: 12.07.10
CERT. NO.: SH08-38
ISSUE NO.: 2

| | | | |
|------------|--------------------|---|--------------|
| DESIGN | <i>[Signature]</i> | DART AEROSPACE LTD | |
| DRAWN | <i>[Signature]</i> | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | <i>[Signature]</i> | DRAWING NO. | REV. A |
| MFG. APPR. | <i>[Signature]</i> | DSI 9625 | SHEET 2 OF 2 |
| APPROVED | <i>[Signature]</i> | TITLE | SCALE |
| DE APPR. | <i>[Signature]</i> | SPACER ADDITION | NTS |
| DATE | 12.07.10 | COPYRIGHT © 2012 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD | |



D412-769-043 AFT FACING SEAT ASSY, LH

RELEASED
580709-142

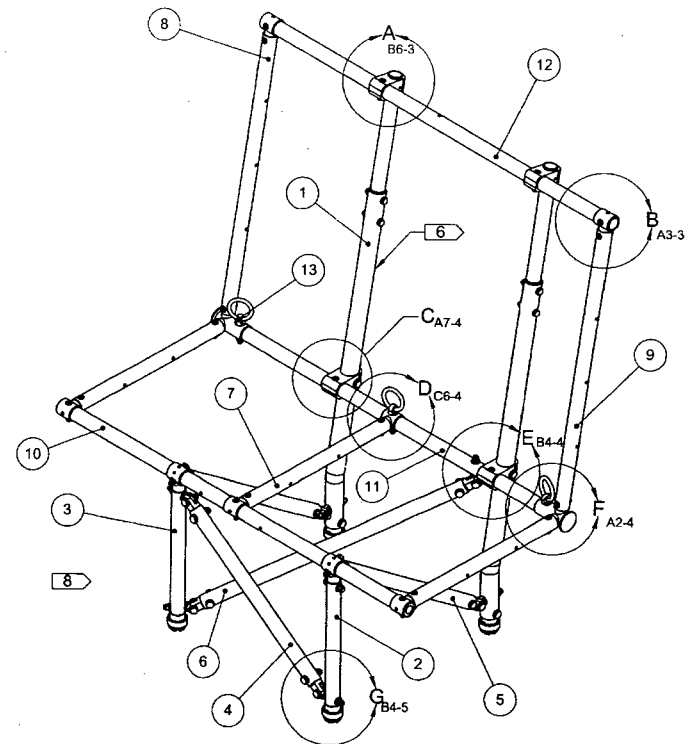
| | | | |
|------------|--------------|---|--------------|
| B | NEW HARDWARE | HS | 08.06.25 |
| A | NEW ISSUE | HS | 08.06.04 |
| REV. | DESCRIPTION | BY | DATE |
| DESIGN | HS | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| DRAWN | HS | | |
| CHECKED | PA | DRAWING NO. | REV. B |
| MFG. APPR. | 142 | D412-769-1 | SHEET 1 OF 7 |
| APPROVED | 142 | TITLE | SCALE |
| DE APPR. | 142 | AFT FACING SEAT ASSY, LH | NTS |
| DATE | 08.06.25 | <small>COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small> | |

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. (-043) |
|----------|---------------|-----------------------------|-------------|
| 1 | D3782-045 | BACK LEG ASSY | 2 |
| 2 | D3782-041 | FRONT INBOARD LEG ASSY | 1 |
| 3 | D3782-043 | FRONT OUTBOARD LEG ASSY, LH | 1 |
| 4 | D3783-041 | LATERAL BRACE ASSY | 1 |
| 5 | D3783-043 | LONGITUDINAL BRACE ASSY | 2 |
| 6 | D3783-045 | ANGLE BRACE ASSY | 1 |
| 7 | D3784-041 | SEAT SUPPORT ASSY | 1 |
| 8 | D3784-043 | SEAT SUPPORT ASSY, LH | 1 |
| 9 | D3784-044 | SEAT SUPPORT ASSY, RH | 1 |
| 10 | D3766-1 | FRONT RAIL, LH | 1 |
| 11 | D3766-3 | REAR RAIL | 1 |
| 12 | D3767-1 | UPPER RAIL | 1 |
| 13 | D3792-1 | SEAT BELT EYE BOLT | 3 |
| 14 | D3775-1 | GUARD | 2 |
| 15 | D3774-1 | SEAT BOTTOM | 1 |
| 16 | D3774-3 | SEAT BACK | 1 |
| 17 | AN3-5A | BOLT | 6 |
| 18 | AN4-15A | BOLT | 2 |
| 19 | AN45-13A | EYE BOLT | 1 |
| 20 | AN5-10A | BOLT | 6 |
| 21 | AN5-13A | BOLT | 2 |
| 22 | AN525-10R22 | SCREW | 13 |
| 23 | AN525-10R24 | SCREW | 9 |
| 24 | MS21042L3 | NUT | 28 |
| 25 | MS21042L4 | NUT | 2 |
| 26 | MS21042L5 | NUT | 12 |
| 27 | NAS1149D0332J | WASHER (AN960JD10L) | 13 |
| 28 | NAS1149D0363J | WASHER (AN960JD10) | 21 |
| 29 | NAS1149D0463J | WASHER (AN960JD416) | 4 |
| 30 | NAS1149D0568J | WASHER (AN960JD516) | 20 |







NOTES:

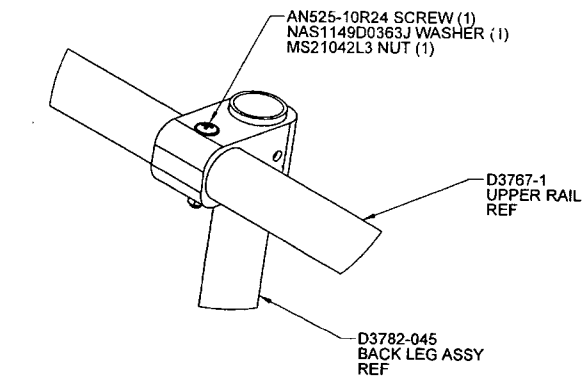
- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT ASSEMBLED SEAT "GREY SANTEX" (4,3,5,6) PER DART QSI 005 4.3 PRIOR TO INSTALLATION OF SEAT BOTTOM/BACK (D3774-1/-3). MASK FRONT LEGS PRIOR TO POWDER COAT.
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH D2729-1 RED DECAL ATTACHED TO BACK LEG ASSEMBLY (D3782-045)
- 7) WEIGHT: 30.0 lbs
- 8) ITEM 15 (D3774-1 SEAT BOTTOM) AND ITEM 16 (D3774-3 SEAT BACK) REMOVED FOR CLARITY



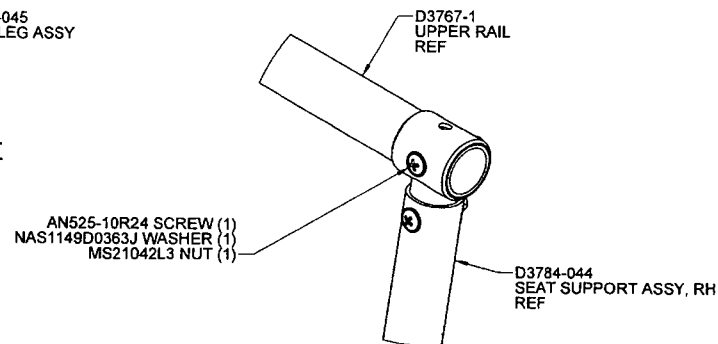
D412-769-043 AFT FACING SEAT ASSY, LH

RELEASED
08-07-09/10

| | | | |
|--|---|--|--------------|
| DESIGN | HS | DART AEROSPACE LTD | |
| DRAWN | HS | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED |  | DRAWING NO. | REV. 8 |
| MFG. APPR. |  | D412-769-1 | SHEET 2 OF 7 |
| APPROVED |  | TITLE | SCALE |
| DE APPR. |  | AFT FACING SEAT ASSY, LH | NTS |
| DATE | 08.06.25 | COPYRIGHT © 2008 BY DART AEROSPACE LTD | |
| THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. | | | |



DETAIL A D2-2
UPPER RAIL TO BACK LEG ATTACHMENT
 2 PL

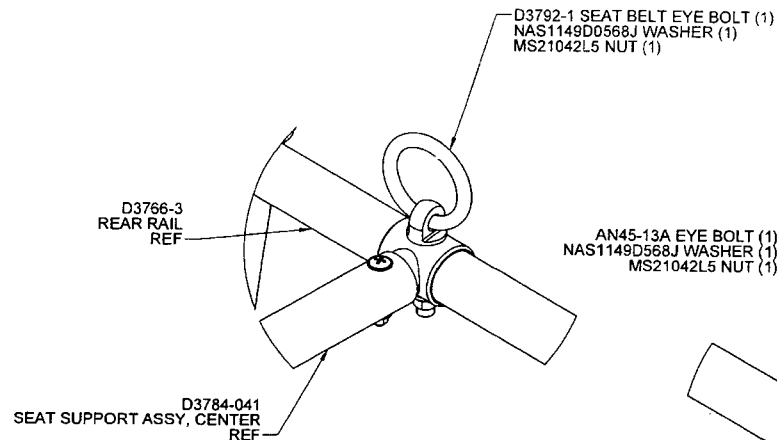


DETAIL B C1-2
SEAT SUPPORT END ATTACHMENT
 5 PL

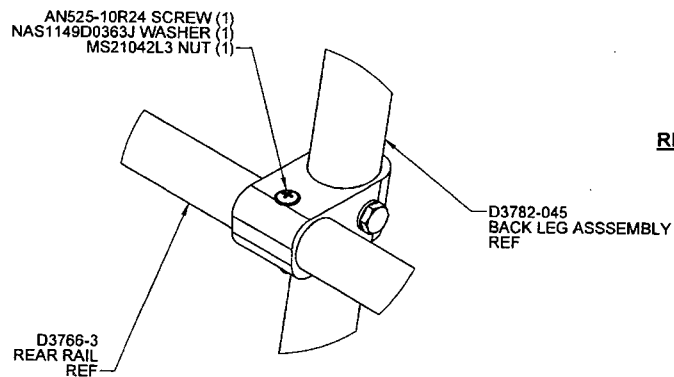
RELEASED
 08-07-09

| | | | |
|------------|----------|---|--------------|
| DESIGN | HS | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| DRAWN | HS | | |
| CHECKED | HS | DRAWING NO. | REV. B |
| MFG. APPR. | | D412-769-1 | SHEET 3 OF 7 |
| APPROVED | | TITLE | SCALE |
| DE APPR. | | AFT FACING SEAT ASSY, LH | NTS |
| DATE | 08.06.25 | <small>COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL. AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSES OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small> | |

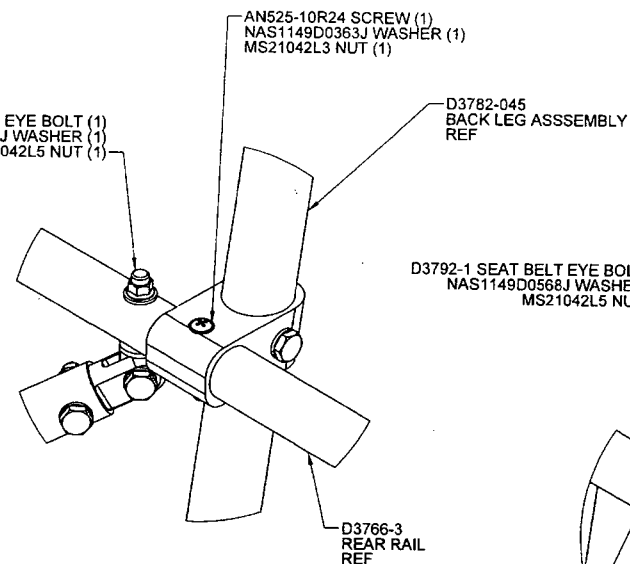
8 7 6 5 4 3 2 1



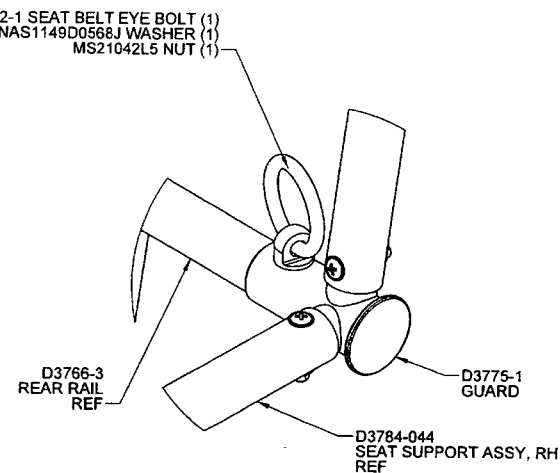
DETAIL D C2-2
SEAT SUPPORT ASSY, CENTER ATTACHMENT



DETAIL C C2-2
REAR RAIL TO BACK LEG ATTACHMENT







DETAIL E C1-2
REAR RAIL TO BACK LEG ATTACHMENT

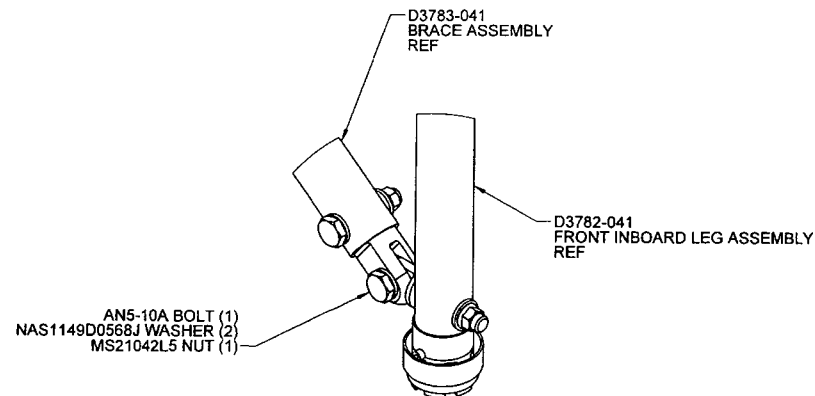


DETAIL F B1-2
SEAT SUPPORT ATTACHMENT
2 PL

RELEASE
08 07 09 11/10

| | | | |
|---|---|--|--------------|
| DESIGN | HS | DART AEROSPACE LTD | |
| DRAWN | HS | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED |  | DRAWING NO. | REV. B |
| MFG. APPR. |  | D412-769-1 | SHEET 4 OF 7 |
| APPROVED |  | TITLE | SCALE |
| DE APPR. |  | AFT FACING SEAT ASSY, LH | NTS |
| DATE | 08.06.25 | COPYRIGHT © 2001 BY DART AEROSPACE LTD | |
| THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. | | | |

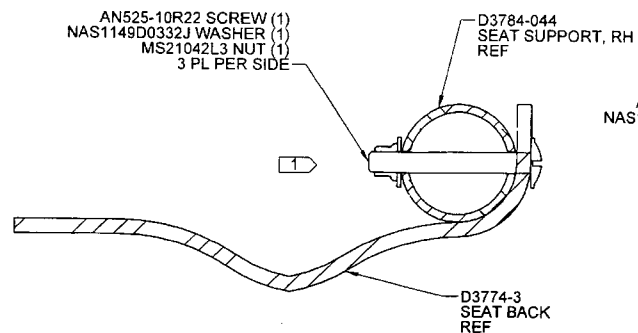
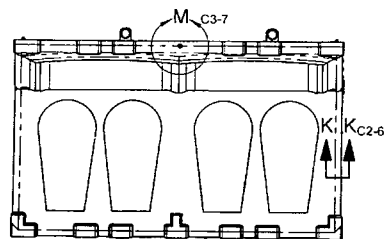
8 7 6 5 4 3 2 1



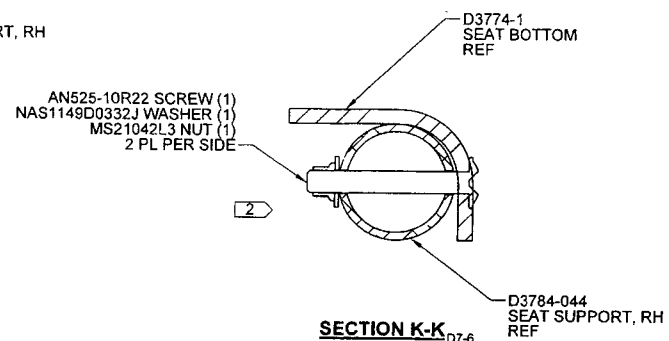
DETAIL G_{B2-2}
BRACE ATTACHMENT
6 PL

RELEASED
08.07.07/114

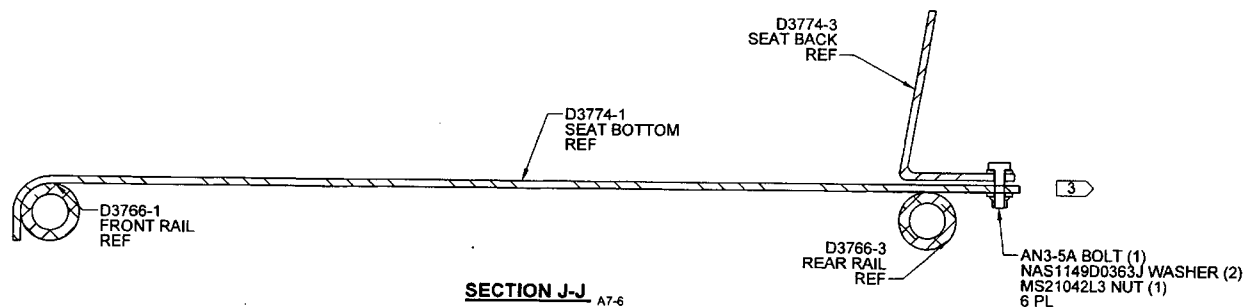
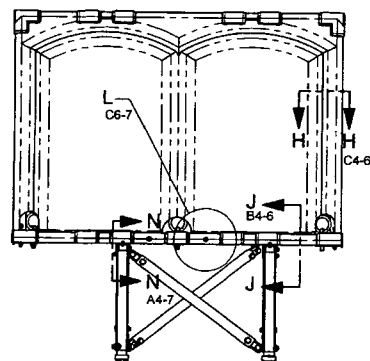
| | | | |
|------------|----------|--|--------------|
| DESIGN | HS | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| DRAWN | HS | | |
| CHECKED | AS | DRAWING NO. | REV. B |
| MFG. APPR. | AS | D412-769-1 | SHEET 5 OF 7 |
| APPROVED | AS | TITLE | SCALE |
| DE APPR. | AS | AFT FACING SEAT ASSY, LH | NTS |
| DATE | 08.06.25 | COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. | |



SECTION H-H
B7-6



SECTION K-K
D7-6







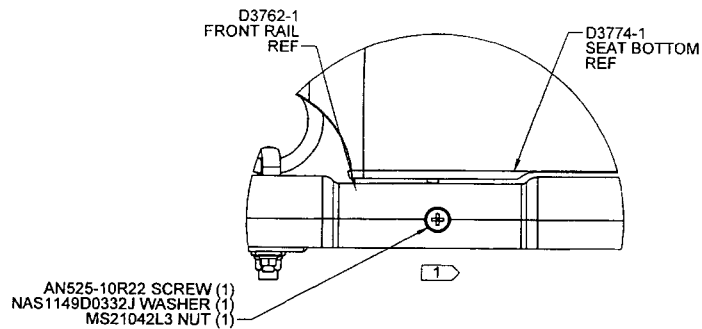
SECTION J-J
A7-6

RELEASED
08-07-81

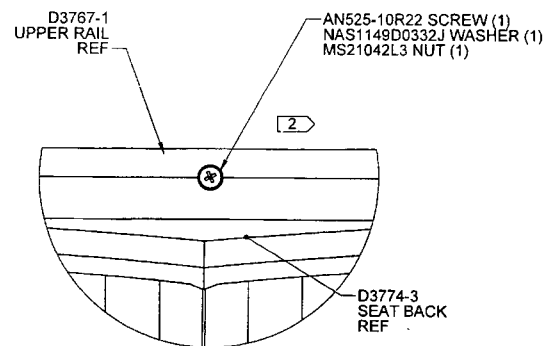
NOTES:

- 1) TRANSFER DRILL Ø0.201 FROM SEAT SUPPORTS (D3784-043/-044) TO SEAT BACK (D3774-3) - 3 PL/SIDE
- 2) TRANSFER DRILL Ø0.201 FROM SEAT SUPPORTS (D3784-043/-044) TO SEAT BOTTOM (D3774-1) - 2 PL/SIDE
- 3) TRANSFER DRILL Ø0.201 FROM SEAT BOTTOM (D3774-1) TO SEAT BACK (D3774-3) - 6 PL

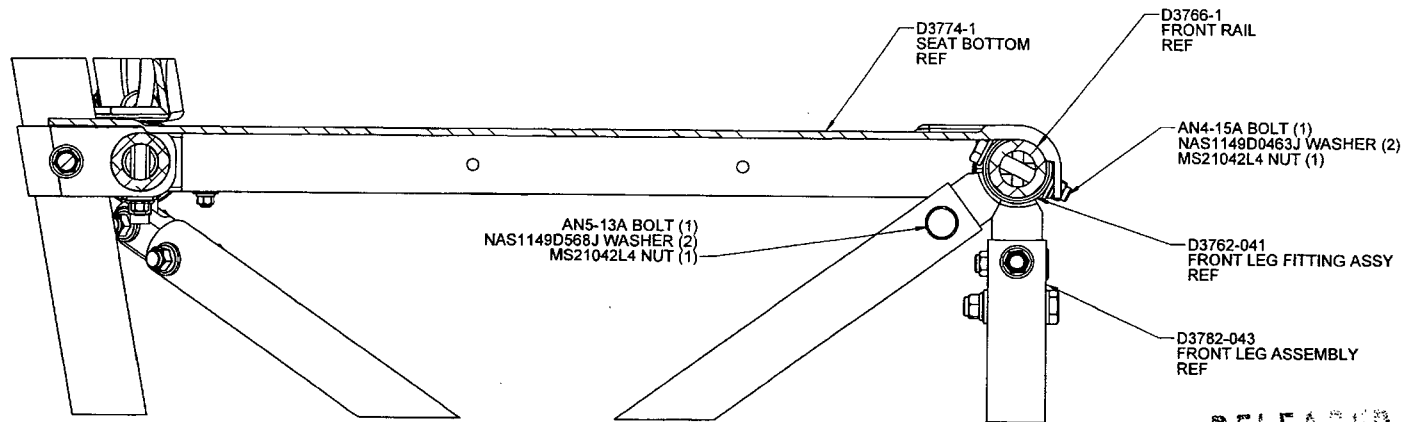
| | | | |
|--|---|--|--------------|
| DESIGN | HS | DART AEROSPACE LTD | |
| DRAWN | HS | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED |  | DRAWING NO. | REV. B |
| MFG. APPR. |  | D412-769-1 | SHEET 6 OF 7 |
| APPROVED |  | TITLE | SCALE |
| DE APPR. |  | AFT FACING SEAT ASSY, LH | NTS |
| DATE | 08.06.25 | COPYRIGHT © 2006 BY DART AEROSPACE LTD | |
| THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. | | | |



DETAIL L A7-6
SEAT BOTTOM ATTACH - FRONT DETAIL
2 PL



DETAIL M D7-6
SEAT BACK ATTACH - TOP DETAIL



SECTION N-N A8-6
FRONT LEG AND LONGITUDINAL ANGLE ATTACHMENT
2 PL

NOTES:

- 1) TRANSFER DRILL $\phi 0.201$ FROM FRONT RAIL (D3766-1) TO SEAT BOTTOM (D3774-1) - 2 PL
- 2) TRANSFER DRILL $\phi 0.201$ FROM UPPER RAIL (D3767-1) TO SEAT BACK (D3774-3) - 1 PL

RELEASED
08-07-08 11:00

| | | | |
|------------|----------|--|--------------|
| DESIGN | HS | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| DRAWN | HS | | |
| CHECKED | HS | DRAWING NO. | REV. B |
| MFG. APPR. | | D412-769-1 | SHEET 7 OF 7 |
| APPROVED | | TITLE | SCALE |
| DE APPR. | | AFT FACING SEAT ASSY, LH | NTS |
| DATE | 08.06.25 | COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. | |

| | | | | | | |
|----------------------------------|--|-------------------------------|---|-------------------------------------|---------------------------|--------------|
| DRAWING NO. D412-769-1 | TITLE AFT FACING SEAT ASSY, LH | REV. B | DART AEROSPACE LTD ENGINEERING ORDER | D.E.O. NO. D412-769-1-B-1 | SHEET NO. SHEET 1 OF 2 | SCALE NTS |
| DRAWN | CHECKED <i>UP</i> | MFG. APPR. <i>[Signature]</i> | APPROVED <i>[Signature]</i> | DE APPR. <i>[Signature]</i> | | |
| DATE 12.07.09 | DATE 12/7/10 | DATE 12-07-10 | DATE 12-07-10 | DATE 12-07-10 | | |

PURPOSE:

ADDITION OF QTY(2) D4679-1 SPACER PER PAR12-207.

CHANGE:

PARTS LIST IS AMENDED AS FOLLOWS:

| PART NUMBER | DESCRIPTION | QTY. (-043) |
|---------------|-----------------------------|-------------|
| D3782-045 | BACK LEG ASSY | 2 |
| D3782-041 | FRONT INBOARD LEG ASSY | 1 |
| D3782-043 | FRONT OUTBOARD LEG ASSY, LH | 1 |
| D3783-041 | LATERAL BRACE ASSY | 1 |
| D3783-043 | LONGITUDINAL BRACE ASSY | 2 |
| D3783-045 | ANGLE BRACE ASSY | 1 |
| D3784-041 | SEAT SUPPORT ASSY | 1 |
| D3784-043 | SEAT SUPPORT ASSY, LH | 1 |
| D3784-044 | SEAT SUPPORT ASSY, RH | 1 |
| D3766-1 | FRONT RAIL, LH | 1 |
| D3766-3 | REAR RAIL | 1 |
| D3767-1 | UPPER RAIL | 1 |
| D3792-1 | SEAT BELT EYE BOLT | 3 |
| D3775-1 | GUARD | 2 |
| D3774-1 | SEAT BOTTOM | 1 |
| D3774-3 | SEAT BACK | 1 |
| D4679-1 | SPACER | 2 |
| AN3-5A | BOLT | 6 |
| AN4-15A | BOLT | 2 |
| AN45-13A | EYE BOLT | 1 |
| AN5-10A | BOLT | 6 |
| AN5-13A | BOLT | 2 |
| AN525-10R22 | SCREW | 11 |
| AN525-10R24 | SCREW | 9 |
| AN525-10R28 | SCREW | 2 |
| MS21042L3 | NUT | 28 |
| MS21042L4 | NUT | 2 |
| MS21042L5 | NUT | 12 |
| NAS1149D0332J | WASHER (AN960JD10L) | 11 |
| NAS1149D0363J | WASHER (AN960JD10) | 23 |
| NAS1149D0463J | WASHER (AN960JD416) | 4 |
| NAS1149D0568J | WASHER (AN960JD516) | 20 |

NEW

QTY WAS 13

NEW

QTY WAS 13

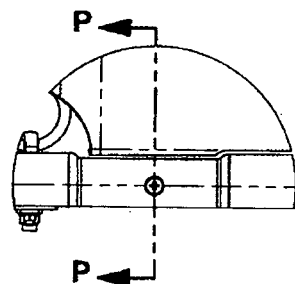
QTY WAS 21

RELEASED
2012-07-16
[Signature]

COPYRIGHT © 2012 BY DART AEROSPACE LTD
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS
NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT
WRITTEN PERMISSION FROM DART AEROSPACE LTD.

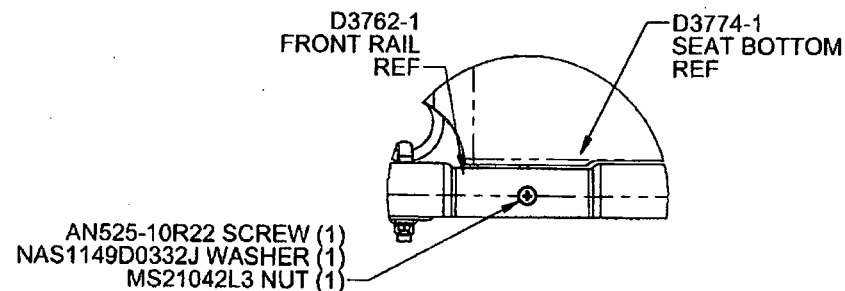
| | | | | | | |
|----------------------------------|--|-------------------------------|---|-------------------------------------|---------------------------|--------------|
| DRAWING NO. D412-769-1 | TITLE AFT FACING SEAT ASSY, LH | REV. B | DART AEROSPACE LTD ENGINEERING ORDER | D.E.O. NO. D412-769-1-B-1 | SHEET NO. SHEET 2 OF 2 | SCALE NTS |
| DRAWN | CHECKED <i>up</i> | MFG. APPR. <i>[Signature]</i> | APPROVED <i>[Signature]</i> | DE APPR. <i>[Signature]</i> | | |
| DATE 12.07.09 | DATE 12/7/10 | DATE 12-07-10 | DATE 12.07.10 | DATE 12.07.10 | | |

IS:

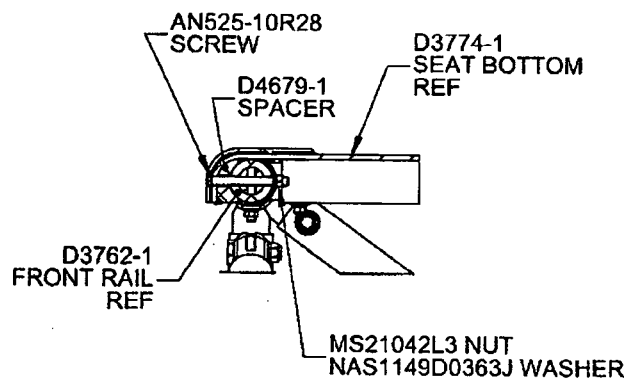


DETAIL L
SEAT BOTTOM ATTACH - FRONT DETAIL
2 PL

WAS:



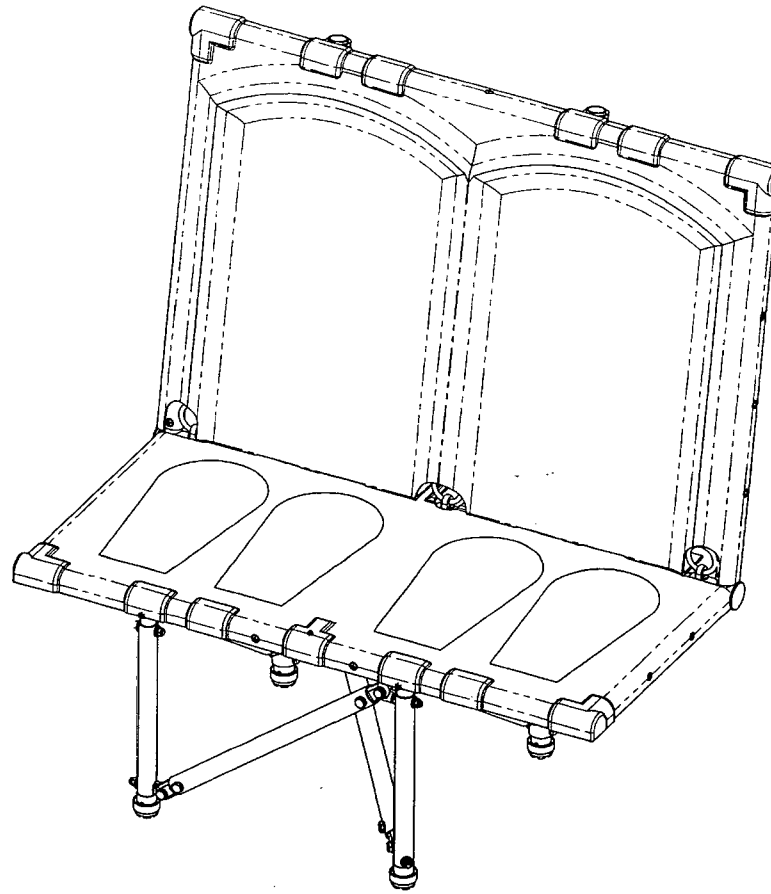
DETAIL L
SEAT BOTTOM ATTACH - FRONT DETAIL
2 PL



SECTION P-P
INSTALLATION OF D4679-1 SPACER
2 PL

RELEASED
2012-07-16
[Signature]

COPYRIGHT © 2012 BY DART AEROSPACE LTD
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS
NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT
WRITTEN PERMISSION FROM DART AEROSPACE LTD.

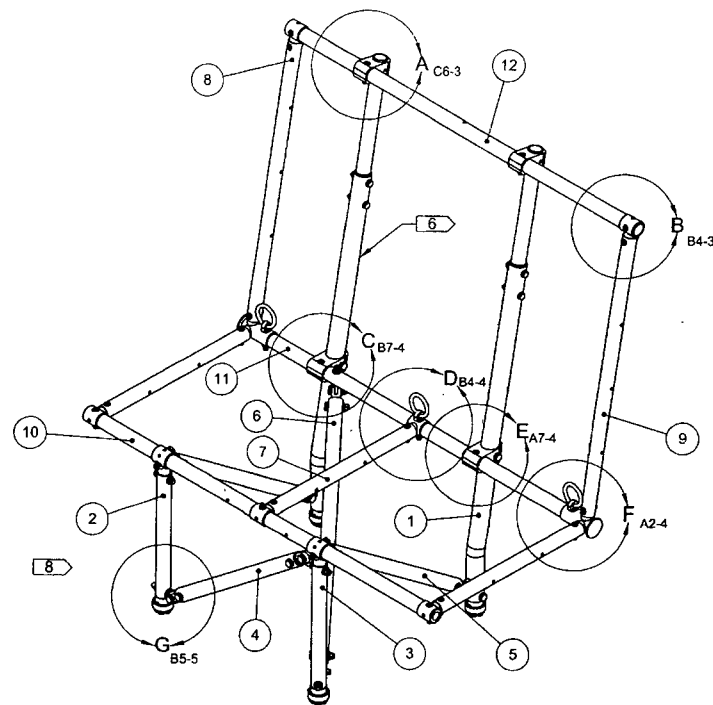


D412-769-044 AFT FACING SEAT, RH

RELEASE
08.07.10/MP

| | | | |
|------------|--------------------|---|--------------|
| B | NEW HARDWARE | HS | 08.06.25 |
| A | NEW ISSUE | HS | 08.06.04 |
| REV. | DESCRIPTION | | BY DATE |
| DESIGN | HS | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| DRAWN | HS | | |
| CHECKED | <i>[Signature]</i> | DRAWING NO. | REV. B |
| MFG. APPR. | <i>[Signature]</i> | D412-769-2 | SHEET 1 OF 7 |
| APPROVED | <i>[Signature]</i> | TITLE | SCALE |
| DE APPR. | <i>[Signature]</i> | AFT FACING SEAT ASSY, RH | NTS |
| DATE | 08.06.25 | COPYRIGHT © 2008 BY DART AEROSPACE LTD <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small> | |

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. (-044) |
|----------|---------------|-----------------------------|-------------|
| 1 | D3782-045 | BACK LEG ASSY | 2 |
| 2 | D3782-041 | FRONT INBOARD LEG ASSY | 1 |
| 3 | D3782-044 | FRONT OUTBOARD LEG ASSY, RH | 1 |
| 4 | D3783-041 | LATERAL BRACE ASSY | 1 |
| 5 | D3783-043 | LONGITUDINAL BRACE ASSY | 2 |
| 6 | D3783-045 | ANGLE BRACE ASSY | 1 |
| 7 | D3784-041 | SEAT SUPPORT ASSY | 1 |
| 8 | D3784-043 | SEAT SUPPORT ASSY, LH | 1 |
| 9 | D3784-044 | SEAT SUPPORT ASSY, RH | 1 |
| 10 | D3766-2 | FRONT RAIL, RH | 1 |
| 11 | D3766-3 | REAR RAIL | 1 |
| 12 | D3767-1 | UPPER RAIL | 1 |
| 13 | D3792-1 | SEAT BELT EYE BOLT | 3 |
| 14 | D3775-1 | GUARD | 2 |
| 15 | D3774-1 | SEAT BOTTOM | 1 |
| 16 | D3774-3 | SEAT BACK | 1 |
| 17 | AN3-5A | BOLT | 6 |
| 18 | AN4-15A | BOLT | 2 |
| 19 | AN45-13A | EYE BOLT | 1 |
| 20 | AN5-10A | BOLT | 6 |
| 21 | AN5-13A | BOLT | 2 |
| 22 | AN525-10R22 | SCREW | 13 |
| 23 | AN525-10R24 | SCREW | 9 |
| 24 | MS21042L3 | NUT | 28 |
| 25 | MS21042L4 | NUT | 2 |
| 26 | MS21042L5 | NUT | 12 |
| 27 | NAS1149D0332J | WASHER (AN960JD10L) | 13 |
| 28 | NAS1149D0363J | WASHER (AN960JD10) | 21 |
| 29 | NAS1149D0463J | WASHER (AN960JD416) | 4 |
| 30 | NAS1149D0568J | WASHER (AN960JD516) | 20 |



D412-769-044 AFT FACING SEAT, RH

RELEASED
08 07 10 10/10

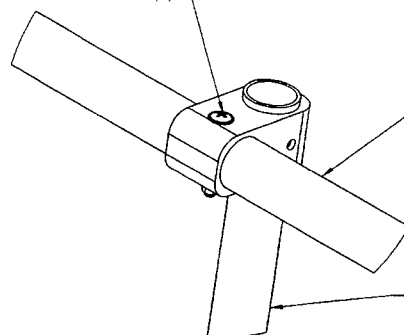
NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT "GREY SANDTEX" (4.3.5.6) PER DART QSI 005 4.3 PRIOR TO INSTALLATION OF SEAT BOTTOM/BACK (D3774-1, -3). MASK FRONT LEGS PRIOR TO POWDER COAT
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH D2729-1 RED DECAL ATTACHED TO BACK LEG ASSEMBLY (D3782-045)
- 7) WEIGHT: 30.0 lbs
- 8) ITEM 15 (D3774-1 SEAT BOTTOM) AND ITEM 16 (D3774-3 SEAT BACK) REMOVED FOR CLARITY

| | | |
|------------|--------------------|--|
| DESIGN | HS | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA |
| DRAWN | HS | |
| CHECKED | <i>[Signature]</i> | DRAWING NO. D412-769-2 REV. B |
| MFG. APPR. | <i>[Signature]</i> | SHEET 2 OF 7 |
| APPROVED | <i>[Signature]</i> | TITLE AFT FACING SEAT ASSY, RH SCALE NTS |
| DE APPR. | <i>[Signature]</i> | |
| DATE | 08.06.25 | |

COPYRIGHT © 2008 BY DART AEROSPACE LTD
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS RELEASED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

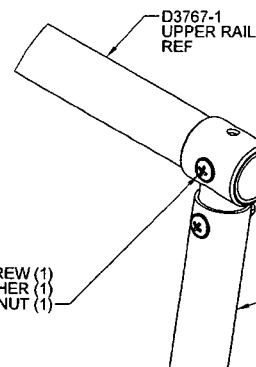
AN525-10R24 SCREW (1)
 NAS1149D0363J WASHER (1)
 MS21042L3 NUT (1)



D3767-1
 UPPER RAIL
 REF

D3782-045
 BACK LEG ASSY
 REF

DETAIL A D2-2
UPPER RAIL TO BACK LEG ATTACHMENT
 2 PL



D3767-1
 UPPER RAIL
 REF

AN525-10R24 SCREW (1)
 NAS1149D0363J WASHER (1)
 MS21042L3 NUT (1)

D3784-044
 SEAT SUPPORT ASSY, RH
 REF

DETAIL B C1-2
SEAT SUPPORT END ATTACHMENT (TYP)
 5 PL

RELEASED

| | | | |
|------------|----------|--|--------------|
| DESIGN | HS | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| DRAWN | HS | | |
| CHECKED | HS | DRAWING NO. | REV. B |
| MFG. APPR. | HS | D412-769-2 | SHEET 3 OF 7 |
| APPROVED | HS | TITLE | SCALE |
| DE APPR. | HS | AFT FACING SEAT ASSY, RH | NTS |
| DATE | 08.06.25 | COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD | |

D3782-045
BACK LEG ASSY
REF

AN45-13A EYE BOLT (1)
NAS1149D0568J WASHER (1)
MS21042L5 NUT (1)

D3766-3
REAR RAIL
REF

AN525-10R24 SCREW (1)
NAS1149D0363J WASHER (1)
MS21042L3 NUT (1)

DETAIL C C2-2
REAR RAIL TO BACK LEG ATTACHMENT

AN525-10R24 SCREW (1)
NAS1149D0363J WASHER (1)
MS21042L3 NUT (1)

D3766-3
REAR RAIL
REF

D3782-045
BACK LEG ASSY
REF

DETAIL E C2-2
REAR RAIL TO BACK LEG ATTACHMENT

D3784-041
SEAT SUPPORT ASSY, CENTER
REF

DETAIL D C1-2
SEAT SUPPORT ASSY, CENTER ATTACHMENT

D3792-1 SEAT BELT EYE BOLT (1)
NAS1149D0568J WASHER (2)
MS21042L5 NUT (1)

D3766-3
REAR RAIL
REF

D3792-1 SEAT BELT EYE BOLT (1)
NAS1149D0568J WASHER (2)
MS21042L5 NUT (1)

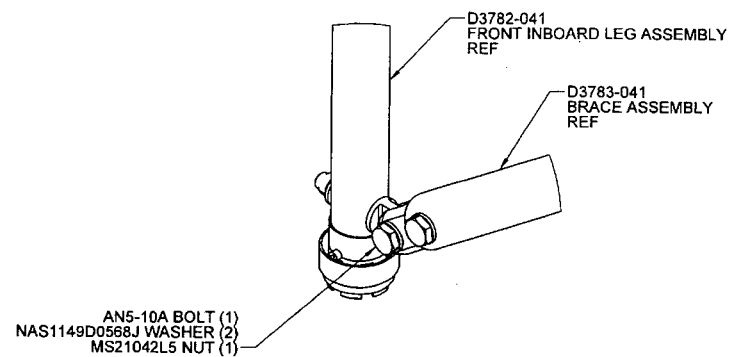
RELEASED
08.07.10

D3775-1
GUARD
REF

D3784-044
SEAT SUPPORT ASSY, RH
REF

DETAIL F B1-2
SEAT SUPPORT ATTACHMENT
2 PL

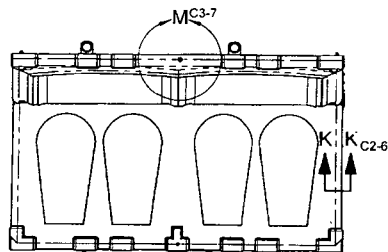
| | | | |
|------------|----------|---|--------------|
| DESIGN | HS | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| DRAWN | HS | | |
| CHECKED | | DRAWING NO. | REV. B |
| MFG. APPR. | | D412-769-2 | SHEET 4 OF 7 |
| APPROVED | | TITLE | SCALE |
| DE APPR. | | AFT FACING SEAT ASSY, RH | NTS |
| DATE | 08.06.25 | <small>COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD</small> | |



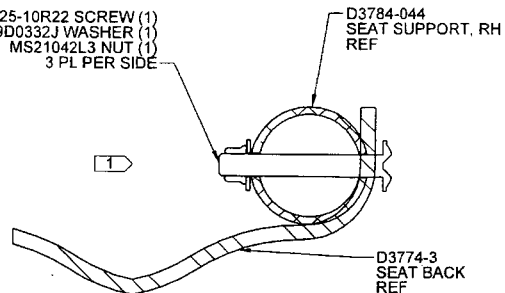
DETAIL G_{B3-2}
BRACE ATTACHMENT
6 PL

RELEASED
08-07-10

| | | | |
|------------|--------------------|---|--------------|
| DESIGN | HS | DART AEROSPACE LTD | |
| DRAWN | HS | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | <i>[Signature]</i> | DRAWING NO. | REV. B |
| MFG. APPR. | <i>[Signature]</i> | D412-769-2 | SHEET 5 OF 7 |
| APPROVED | <i>[Signature]</i> | TITLE | SCALE |
| DE APPR. | <i>[Signature]</i> | AFT FACING SEAT ASSY, RH | NTS |
| DATE | 08.06.25 | <small>COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small> | |



AN525-10R22 SCREW (1)
NAS1149D0332J WASHER (1)
MS21042L3 NUT (1)
3 PL PER SIDE

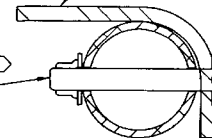


SECTION H-H

B7-6

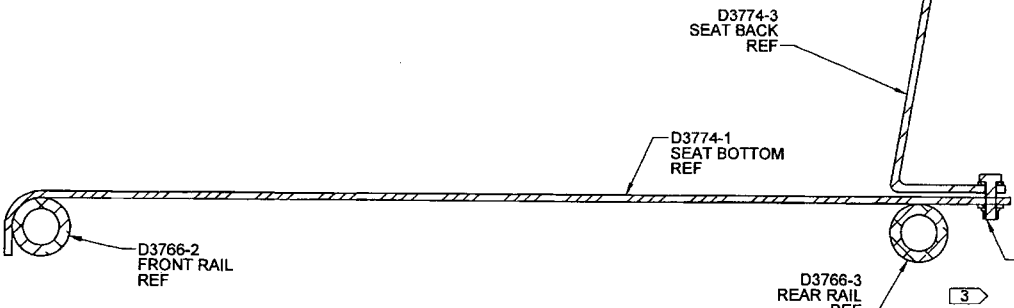
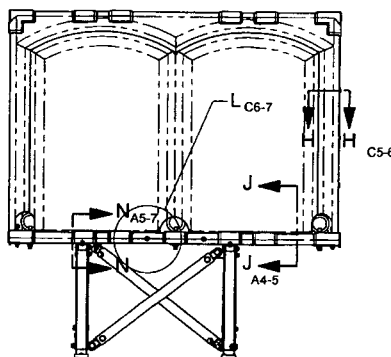
AN525-10R22 SCREW (1)
NAS1149D0332J WASHER (1)
MS21042L3 NUT (1)
2 PL PER SIDE

D3774-1
SEAT BOTTOM
REF



SECTION K-K

D7-6



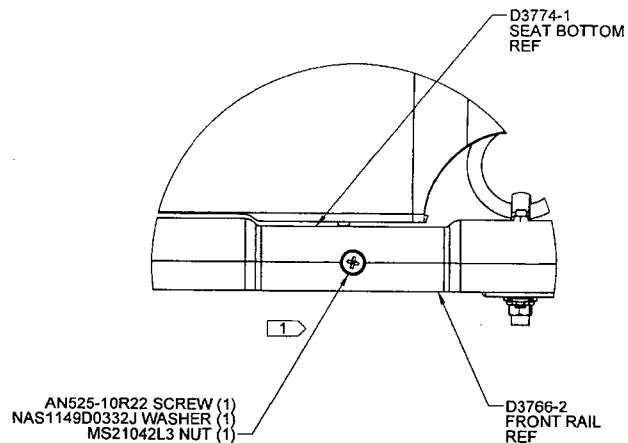
SECTION J-J

B7-6

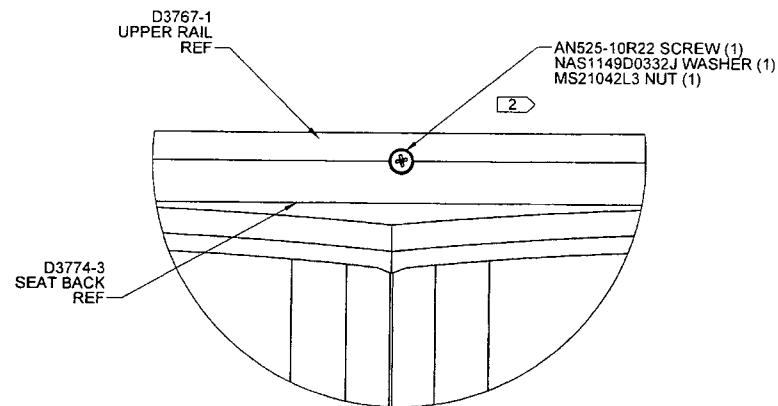
RELEASED
168-27-10-14

NOTES:
1) TRANSFER DRILL HOLES $\varnothing 0.201$ FROM SEAT SUPPORTS (D3784-043/-044) TO SEAT BACK (D3774-3) - 3 PL/SIDE
2) TRANSFER DRILL HOLES $\varnothing 0.201$ FROM SEAT SUPPORTS (D3784-043/-044) TO SEAT BOTTOM (D3774-1) - 2 PL/SIDE
3) TRANSFER DRILL HOLES $\varnothing 0.201$ FROM SEAT BOTTOM (D3774-1) TO SEAT BACK (D3774-3) - 6 PL

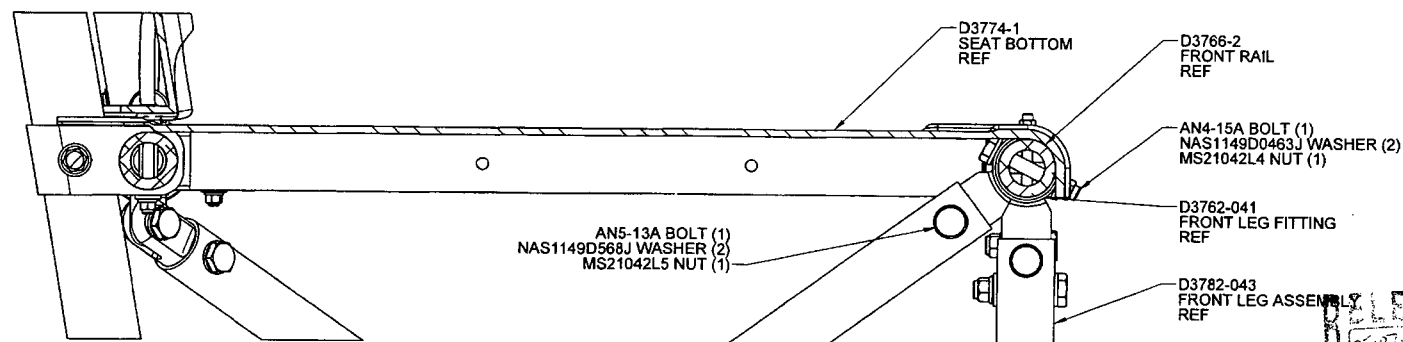
| | | | |
|------------|----------|--|--------------|
| DESIGN | HS | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| DRAWN | HS | | |
| CHECKED | | DRAWING NO. | REV. B |
| MFG. APPR. | | D412-769-2 | SHEET 6 OF 7 |
| APPROVED | | TITLE | SCALE |
| DE APPR. | | AFT FACING SEAT ASSY, RH | NTS |
| DATE | 08.06.25 | COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. | |



DETAIL L B7-6
SEAT BOTTOM ATTACH - FRONT DETAIL



DETAIL M D7-6
SEAT BACK ATTACH - TOP DETAIL



SECTION N-N B7-6
FRONT LEG AND LONGITUDINAL ANGLE ATTACHMENT

- NOTES:**
1) TRANSFER DRILL HOLES $\varnothing 0.201$ FROM FRONT RAIL (D3766-2) TO SEAT BOTTOM (D3774-1) - 2 PL
2) TRANSFER DRILL HOLES $\varnothing 0.201$ FROM UPPER RAIL (D3767-1) TO SEAT BACK (D3774-3) - 1 PL

| | | | |
|------------|----------|--|--------------|
| DESIGN | HS | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| DRAWN | HS | | |
| CHECKED | | DRAWING NO. | REV. B |
| MFG. APPR. | | D412-769-2 | SHEET 7 OF 7 |
| APPROVED | | TITLE | SCALE |
| DE APPR. | | AFT FACING SEAT ASSY, RH | NTS |
| DATE | 08.06.25 | COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. | |

RELEASED
08-07-10

| | | | | | | |
|----------------------------------|--|-------------------------------|---|-------------------------------------|---------------------------|--------------|
| DRAWING NO. D412-769-2 | TITLE AFT FACING SEAT ASSY, RH | REV. B | DART AEROSPACE LTD ENGINEERING ORDER | D.E.O. NO. D412-769-2-B-1 | SHEET NO. SHEET 1 OF 2 | SCALE NTS |
| DRAWN | CHECKED <i>UP</i> | MFG. APPR. <i>[Signature]</i> | APPROVED <i>[Signature]</i> | DE APPR. <i>[Signature]</i> | | |
| DATE 12.07.09 | DATE 12/7/10 | DATE 12.07.10 | DATE 12.07.10 | DATE 12.07.10 | | |

PURPOSE:

ADDITION OF QTY(2) D4679-1 SPACER PER PAR12-207.

CHANGE:

PARTS LIST IS AMENDED AS FOLLOWS:

| PART NUMBER | DESCRIPTION | QTY. (-044) |
|---------------|-----------------------------|-------------|
| D3782-045 | BACK LEG ASSY | 2 |
| D3782-041 | FRONT INBOARD LEG ASSY | 1 |
| D3782-044 | FRONT OUTBOARD LEG ASSY, RH | 1 |
| D3783-041 | LATERAL BRACE ASSY | 1 |
| D3783-043 | LONGITUDINAL BRACE ASSY | 2 |
| D3783-045 | ANGLE BRACE ASSY | 1 |
| D3784-041 | SEAT SUPPORT ASSY | 1 |
| D3784-043 | SEAT SUPPORT ASSY, LH | 1 |
| D3784-044 | SEAT SUPPORT ASSY, RH | 1 |
| D3766-2 | FRONT RAIL, RH | 1 |
| D3766-3 | REAR RAIL | 1 |
| D3767-1 | UPPER RAIL | 1 |
| D3792-1 | SEAT BELT EYE BOLT | 3 |
| D3775-1 | GUARD | 2 |
| D3774-1 | SEAT BOTTOM | 1 |
| D3774-3 | SEAT BACK | 1 |
| D4679-1 | SPACER | 2 |
| AN3-5A | BOLT | 6 |
| AN4-15A | BOLT | 2 |
| AN45-13A | EYE BOLT | 1 |
| AN5-10A | BOLT | 6 |
| AN5-13A | BOLT | 2 |
| AN525-10R22 | SCREW | 11 |
| AN525-10R24 | SCREW | 9 |
| AN525-10R28 | SCREW | 2 |
| MS21042L3 | NUT | 28 |
| MS21042L4 | NUT | 2 |
| MS21042L5 | NUT | 12 |
| NAS1149D0332J | WASHER (AN960JD10L) | 11 |
| NAS1149D0363J | WASHER (AN960JD10) | 23 |
| NAS1149D0463J | WASHER (AN960JD416) | 4 |
| NAS1149D0568J | WASHER (AN960JD516) | 20 |

NEW

QTY WAS 13

NEW

QTY WAS 13

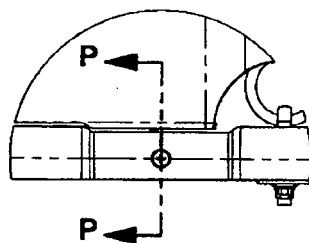
QTY WAS 21

RELEASE
2012-07-16
[Signature]

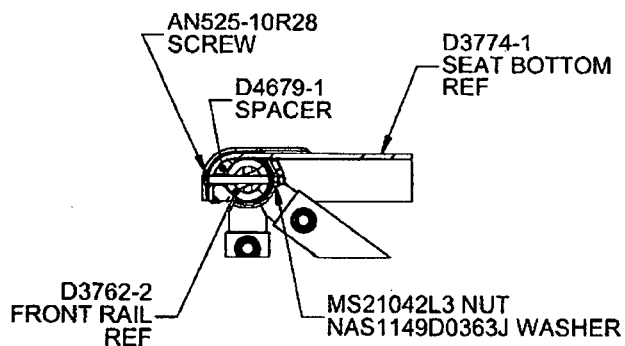
COPYRIGHT © 2012 BY DART AEROSPACE LTD
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS
NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT
WRITTEN PERMISSION FROM DART AEROSPACE LTD.

| | | | | | | |
|----------------------------------|--|-------------------------------|---|-------------------------------------|---------------------------|--------------|
| DRAWING NO. D412-769-2 | TITLE AFT FACING SEAT ASSY, RH | REV. B | DART AEROSPACE LTD ENGINEERING ORDER | D.E.O. NO. D412-769-2-B-1 | SHEET NO. SHEET 2 OF 2 | SCALE NTS |
| DRAWN <i>[Signature]</i> | CHECKED <i>[Signature]</i> | MFG. APPR. <i>[Signature]</i> | APPROVED <i>[Signature]</i> | DE APPR. <i>[Signature]</i> | | |
| DATE 12.07.09 | DATE 12/7/10 | DATE 12.07.10 | DATE 12.07.10 | DATE 12.07.10 | | |

IS:

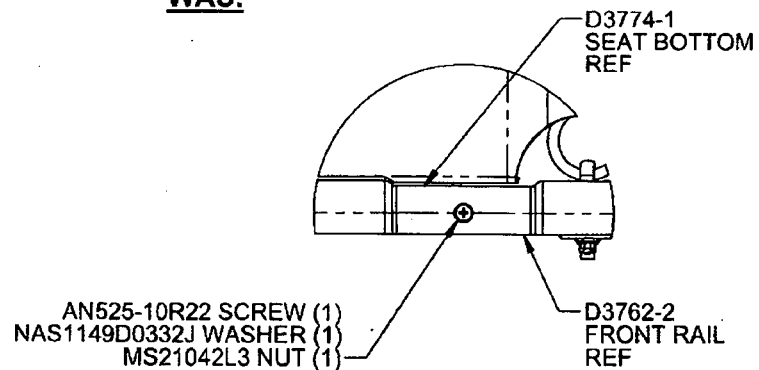


DETAIL L
SEAT BOTTOM ATTACH - FRONT DETAIL
2 PL



SECTION P-P
INSTALLATION OF D4679-1 SPACER
2 PL

WAS:



DETAIL L
SEAT BOTTOM ATTACH - FRONT DETAIL

RELEASED
2012-07-16
[Signature]

COPYRIGHT © 2012 BY DART AEROSPACE LTD
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS
NOT TO BE USED FOR ANY PURPOSE OR COPIED OR REPRODUCED TO ANY OTHER PERSON WITHOUT
WRITTEN PERMISSION FROM DART AEROSPACE LTD.